

# Siwei (Edison) Guo

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Portfolio: <https://edisonguo.tech>

## EDUCATION

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**Northeastern University**, Seattle, WA

Expected May 2021

Candidate of a Master of Science in Information Systems (GPA: 3.69/4)

Related Courses: *Application Engineering & Development, Program Structures & Algorithms, Data Science Engineering Methods & Tools, Network Structures & Cloud Computing, Operating Systems, Web Design & User Experience Engineering, Smartphones-Based Web Development*

**Shanghai University of Electric Power**, Shanghai, China

June 2018

Bachelor of Science in Electrical Engineering

Related Courses: *C language Program Design, Microcomputer Principles, Digital Circuits and Logics*

## TECHNICAL KNOWLEDGE

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**Language:** Java, C/C++, JavaScript, Python

**Front End:** ReactJS, HTML, CSS, Bootstrap

**Back End:** Spring Boot, Node.JS, Express.JS, Django, Apache Tomcat

**Database:** MySQL, MongoDB, MongoDB Atlas, PostgreSQL, Redis, H2, AWS DynamoDB, SQLite

**Cloud Computing:** AWS Elastic Beanstalk, AWS EC2, AWS Lambda, AWS Step Functions

**Tools:** Docker, Git, JSON, GraphQL, Pandas

## WORK EXPERIENCE

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**Software Engineer Intern**, MF Education Technology, Shanghai, China

March 2018 - November 2018

- Worked with C++ on different Linux distributions to build robust robots and electronic products
- Developed Android applications for the electronic products with the development team
- Debugged for C++ code, tested the electronic systems, and wrote detailed documentation for the products

**Software Engineer Intern**, Fujian IoT Scientific Research Institute, Fujian, China

July 2017 - September 2017

- Worked with Java on Linux operating system to develop Apache Tomcat web server in back end team
- Designed and built the back end of Drip Feeding System for hospitals with the development team
- Debugged for C++ code, tested the electronic systems and wrote detailed documentation for the products

## RESEARCH & PROJECT EXPERIENCE

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### Full Stack Project: Todo Web Application

- Built the front end with ReactJS, HTML, CSS and Bootstrap, the back end with Java and Spring Boot
- Integrated the back end with H2 database, secured user data with Basic Auth and JSON Web Token(JWT)
- Hosted and maintained the web application on AWS Elastic Beanstalk

### Full Stack Project: Bookcase - Library Management System

- Developed the front end with ReactJS, HTML, CSS, and back end with Node.JS and Express.JS
- Connected the back end with MongoDB Atlas, modeled and fetched the data with Mongoose
- Worked with GraphQL to send and load data in a modern way to bridge the back end and the front end

### Back-end Project: Blackboard - Learning Management System REST APIs

- Used Java and Spring Boot to build REST APIs to post, query, delete, and update learning information
- Stored all the data in AWS DynamoDB and deployed the web application on AWS Elastic Beanstalk
- Implemented serverless APIs with AWS Lambda, AWS Step Functions, and AWS API Gateway

### Back-end Project: Blog Django Web Application

- Focused on the back end and built REST APIs for blog management system with Python and Django
- Linked the back end with SQLite, modeled and migrated the data to the database with embedded library
- Coded the front end with basic HTML and made the application have basic blog functionalities

### Front-end Project: Meme Generator

- Learned to create user interface for web applications with HTML, CSS, JavaScript and ReactJS
- Fetched pictures randomly from imgflip.com image API
- Gained an understanding of the state management and life cycle behind ReactJS